

## GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF UTAH VALLEY UNITERSITY AND OREM CITY. IN ADDITION, ALL WORK SHALL COMPLY WITH THE PROJECT DRAWINGS AND PROJECT SPECIFICATIONS. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

2. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO COORDINATE WITH APPROPRIATE AUTHORITIES FOR INSPECTION AND REVIEW OF WORK.

3. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING, BUT NOT LIMITED TO TRENCHING AND SHORING, TRAFFIC CONTROL AND SECURITY.

4. CONSTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.

5. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS PROVIDED TO THE ENGINEER AND ARE NOT GUARANTEED TO BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT BLUE STAKES AND UVU 48 HOURS IN ADVANCE OF DIGGING.

6. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POTHOLING A AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGN PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POT HOLE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO OWNER.

7. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (I.E. PIPES, STRUCTURES, ETC.) DURING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.

8. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL, AND NOTIFY ENGINEER OF ANY PROBLEMS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAINING OR RESTORING ALL MONUMENTS AND MONUMENT REFERNCE MARKS WITHIN THE PROJECT SITE.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EROSION CONTROL 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT, UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER.

11. ALL TRAFFIC CONTROL (I.E. SIGNAGE, STRIPING AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

12. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND STAKING.

13. THE CONTRACTOR SHALL NOTIFY UVU AND DFCM STAFF 48 HOURS PRIOR TO EXCAVATING.

14. THE CONTRACTOR SHALL PROVIDE AND ON-SITE TOILET FOR THE DURATION OF THE PROJECT.

## SURVEY CONTROL:

POINT

DESCRIPTION

THE FOLLOWING CONTROL POINTS ARE LOCATED AT THE PROJECT. QUESTIONS REGARDING SURVEY CONTROL SHALL BE DIRECTED TO NOEL EVANS AT FRANCOM AND ASSOCIATES AT

EASTING

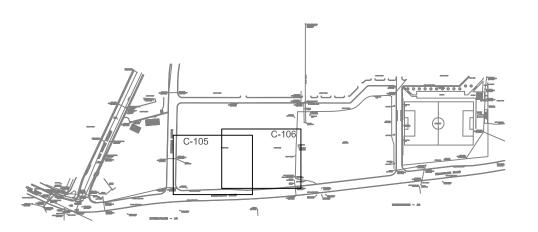
NORTHING

Α	HUB AND TACK	4815.93	3043.06	4581.05	
В	REBAR	4119.11	3291.20	4573.35	
С	REBAR IN CONCRETE (NEXT TO MONITORING WELL)		3338.83	4572.11	C-104

**ELEVATION** 

SHEET INDEX - PIPING







Inc. 2825 E Cottonwood Parkway Salt Lake City, Utah 84121 Phone: 801.990.3170 Fax: 801.990.3293

Internet: www.pavementmanagement.com

D CREATED BY: KING ENGINEERING, INC.



SITE/LOCATION:

UTAH VALLEY UNIVERSITY

PROJECT TITLE:

**UVU RETENTION** 

MARK DATE DESCRIPTION SSUE TYPE: BID SET

ISSUE DATE: NOVEMBER 4, 2008

DFCM PROJECT NO: 07355790

CAD DWG FILE: KE1117NCSSHEET.DWG DRAWN BY: AD COPYRIGHT

SHEET TITLE

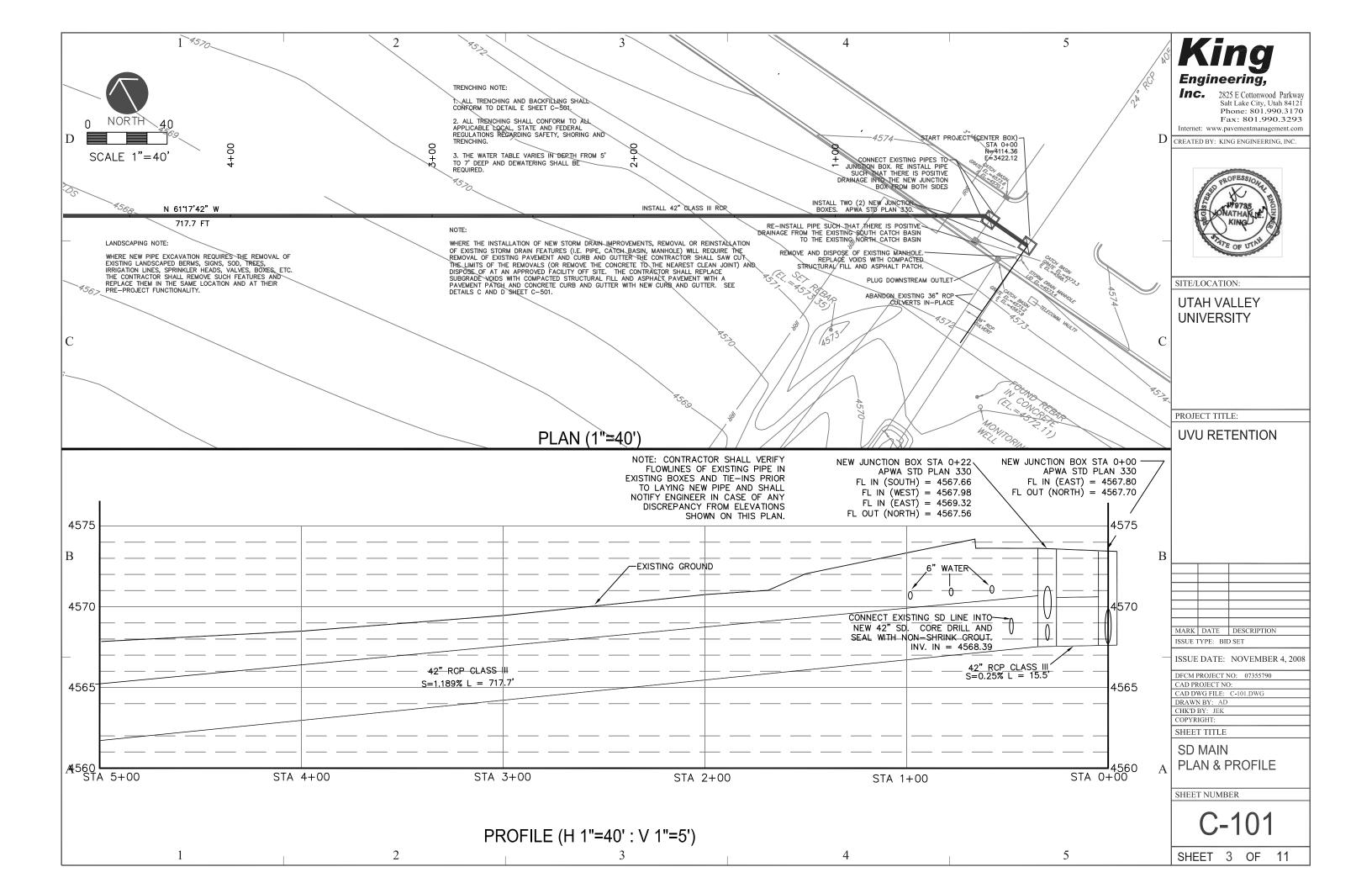
SHEET INDEX AND NOTES

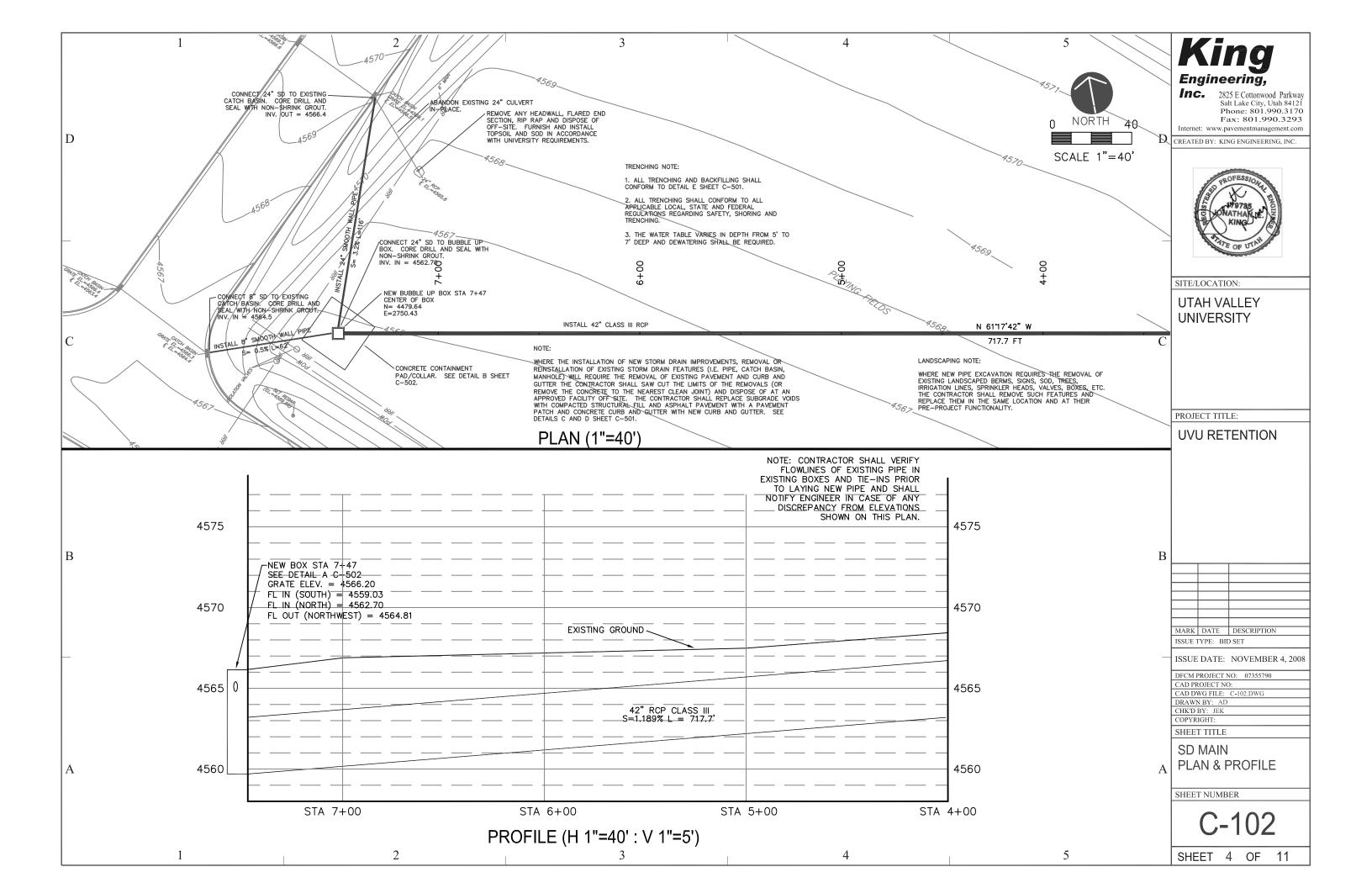
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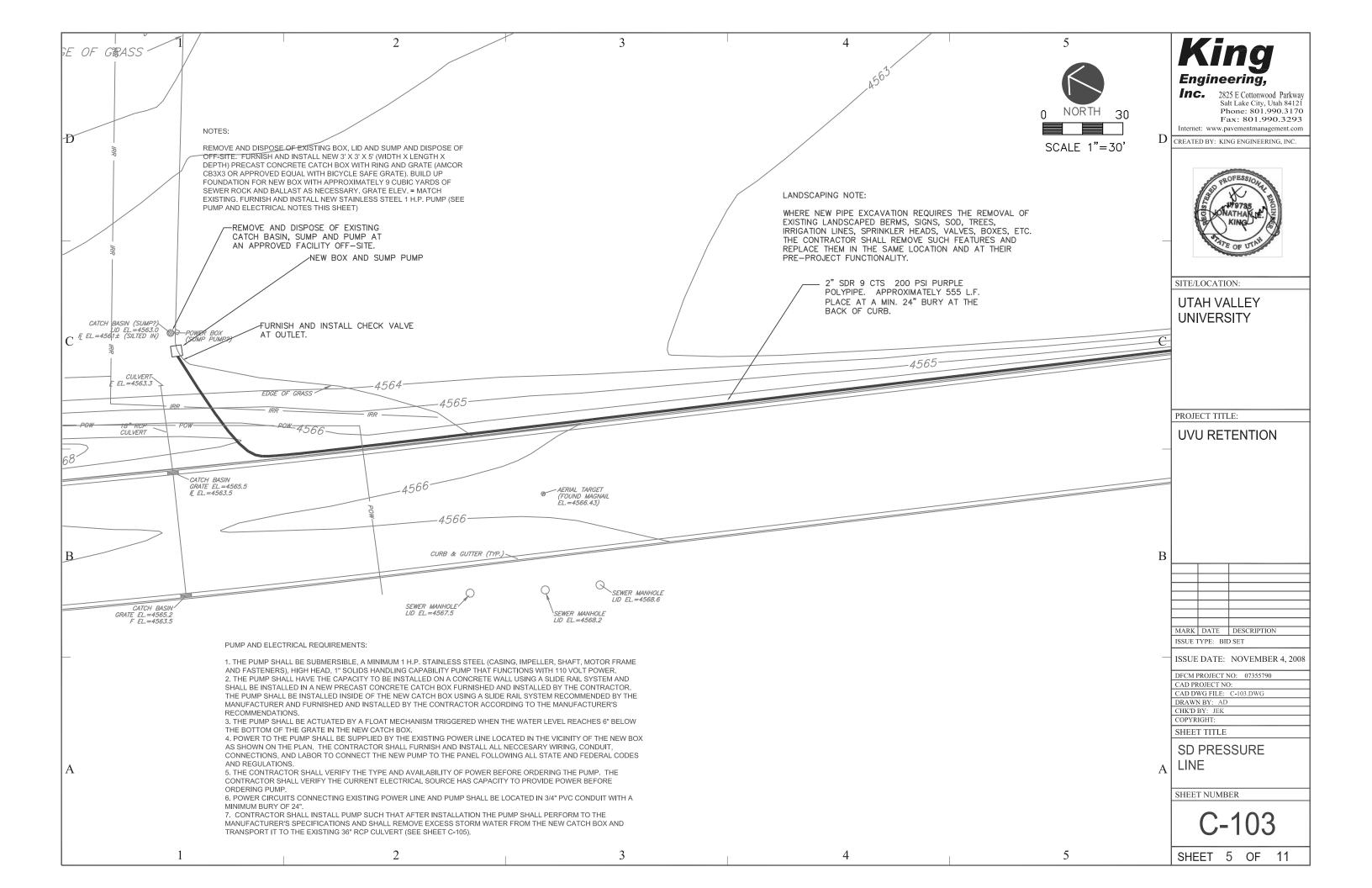
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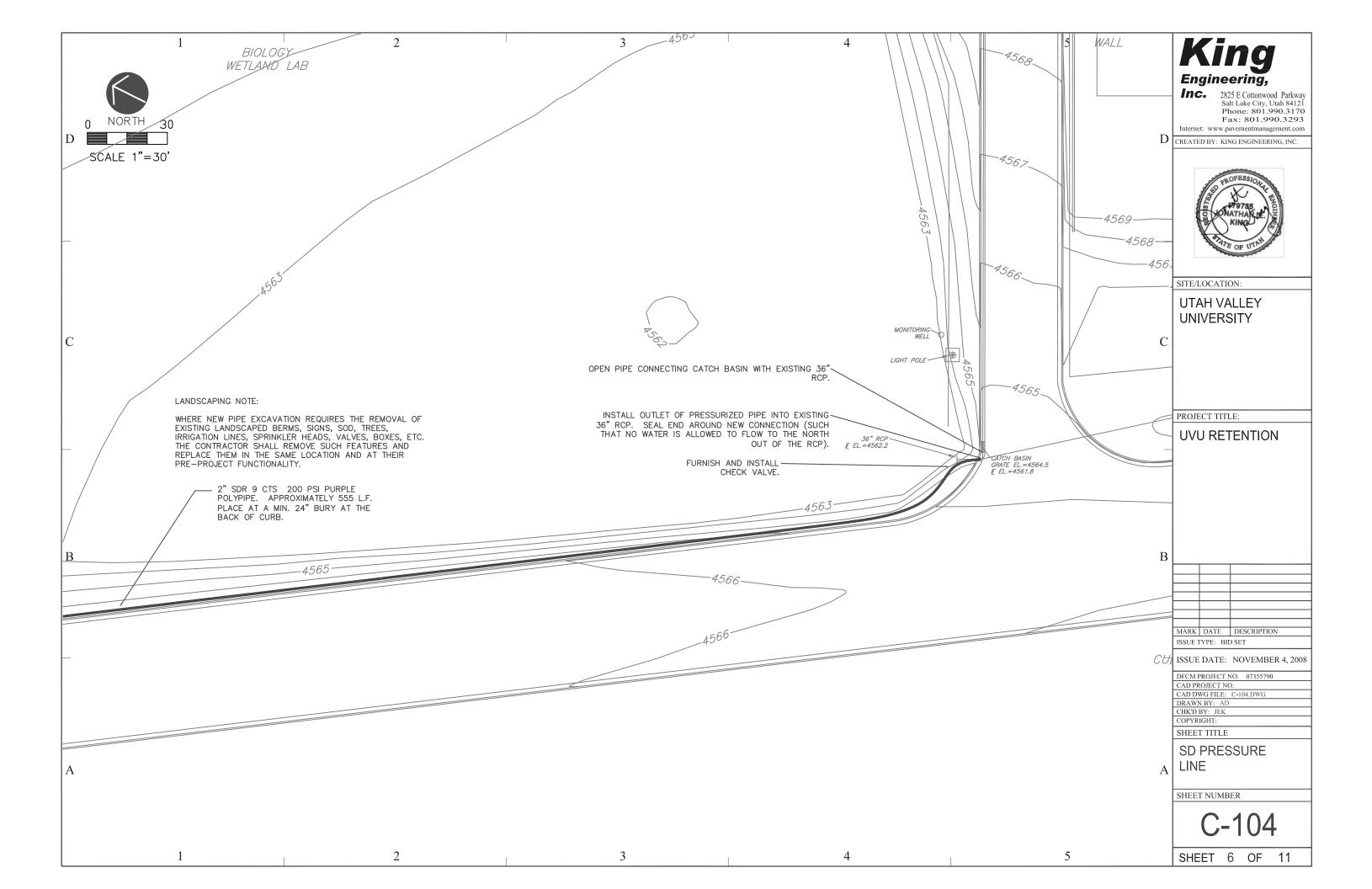
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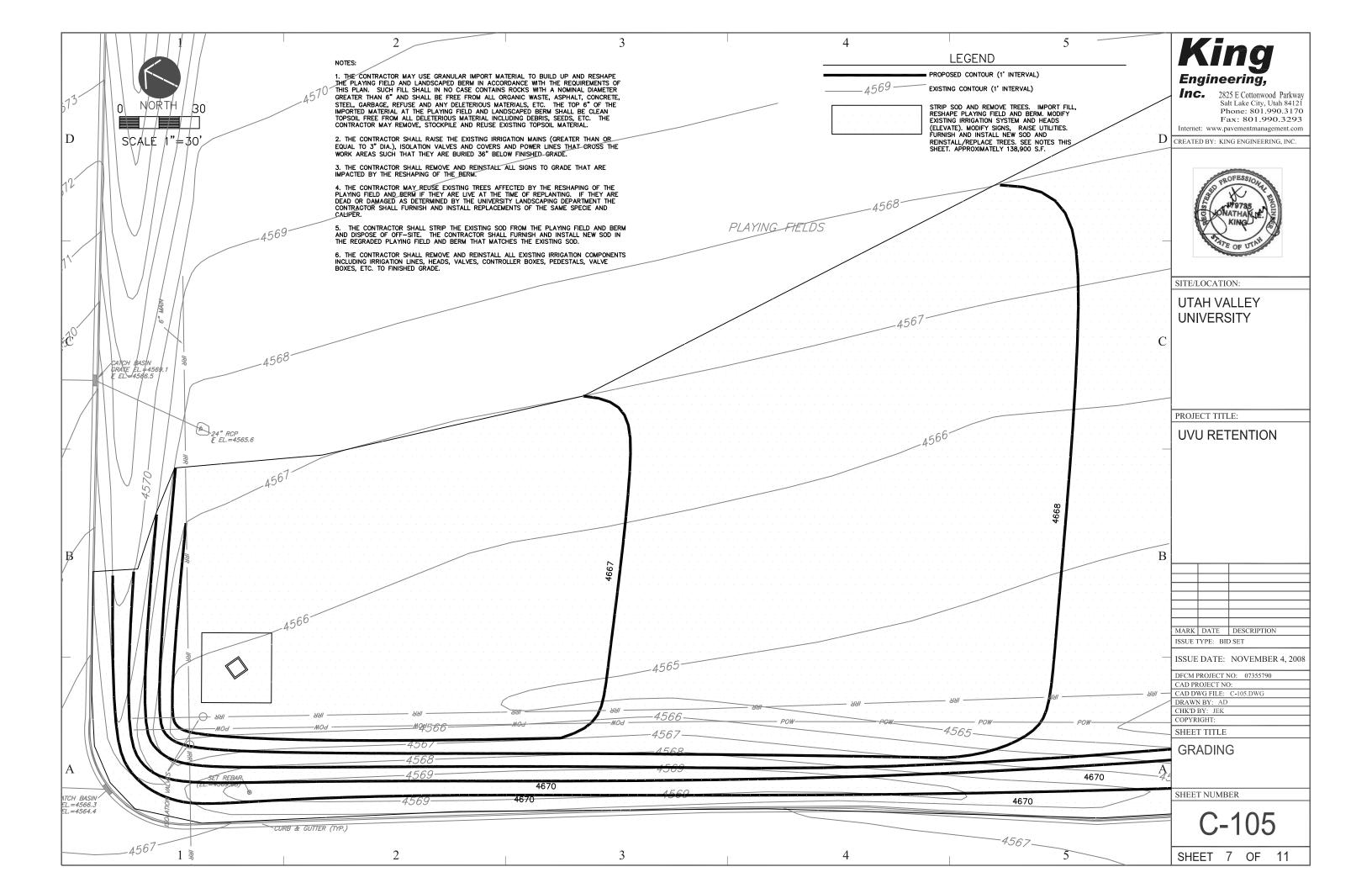
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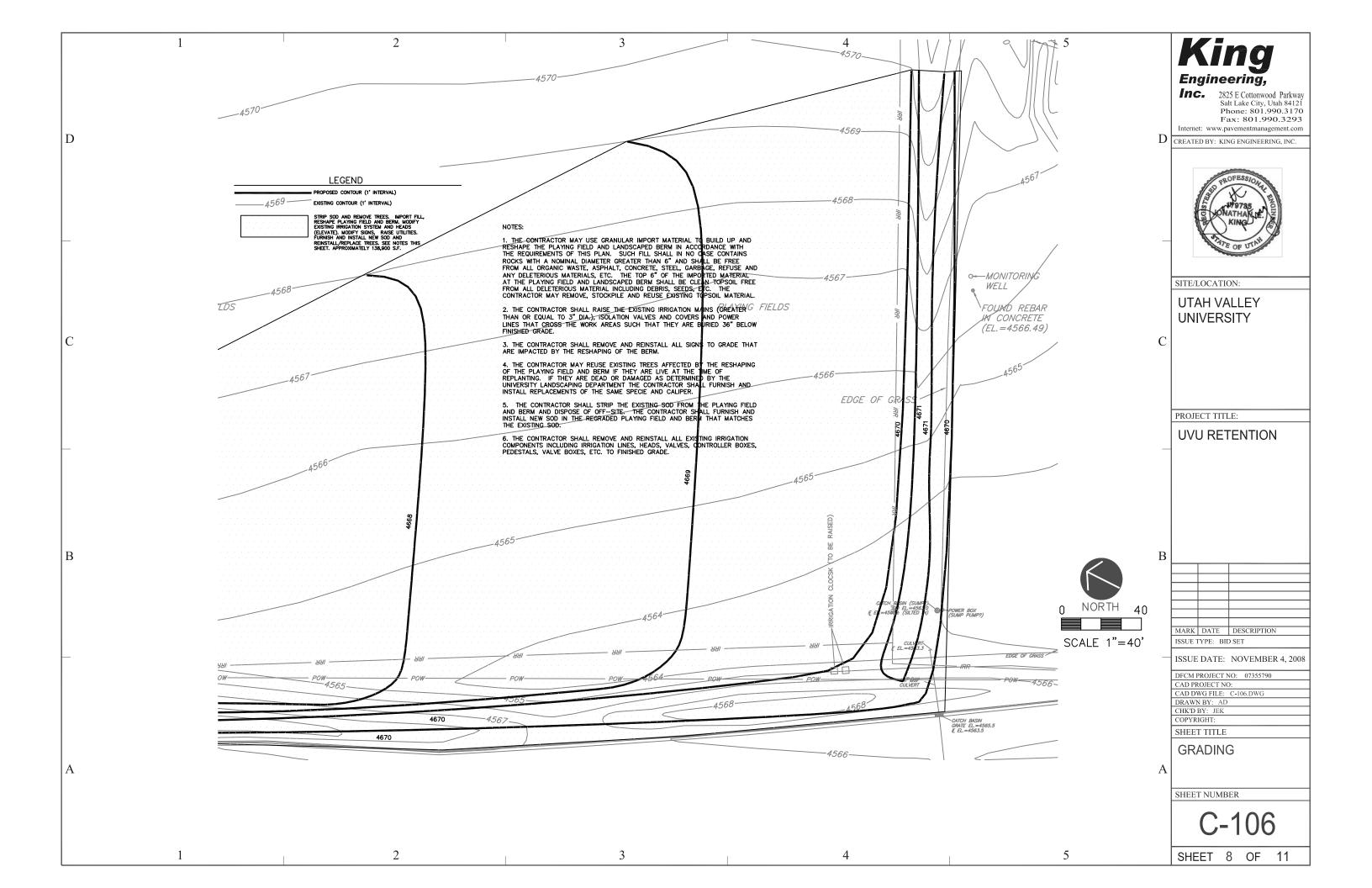


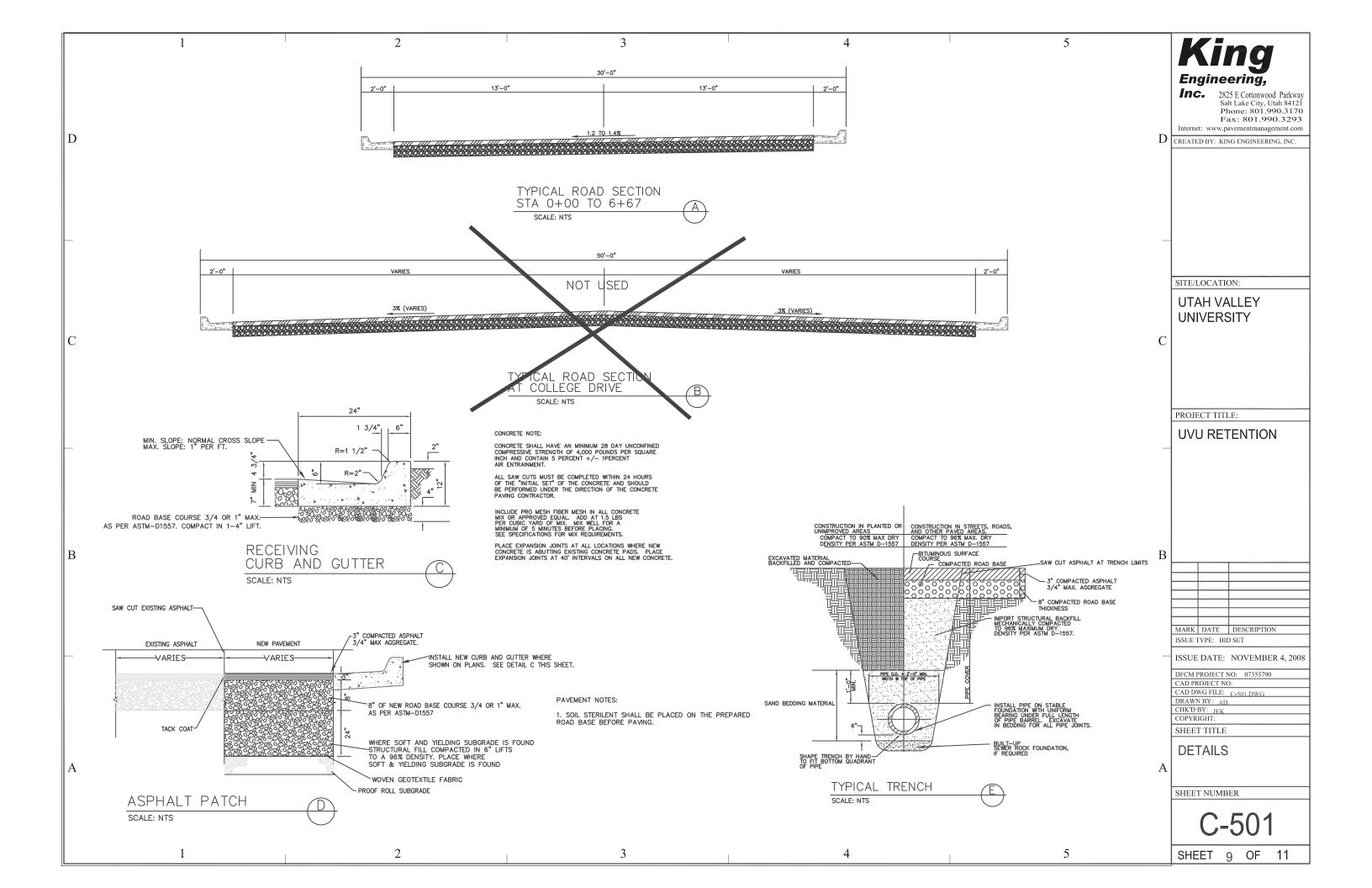


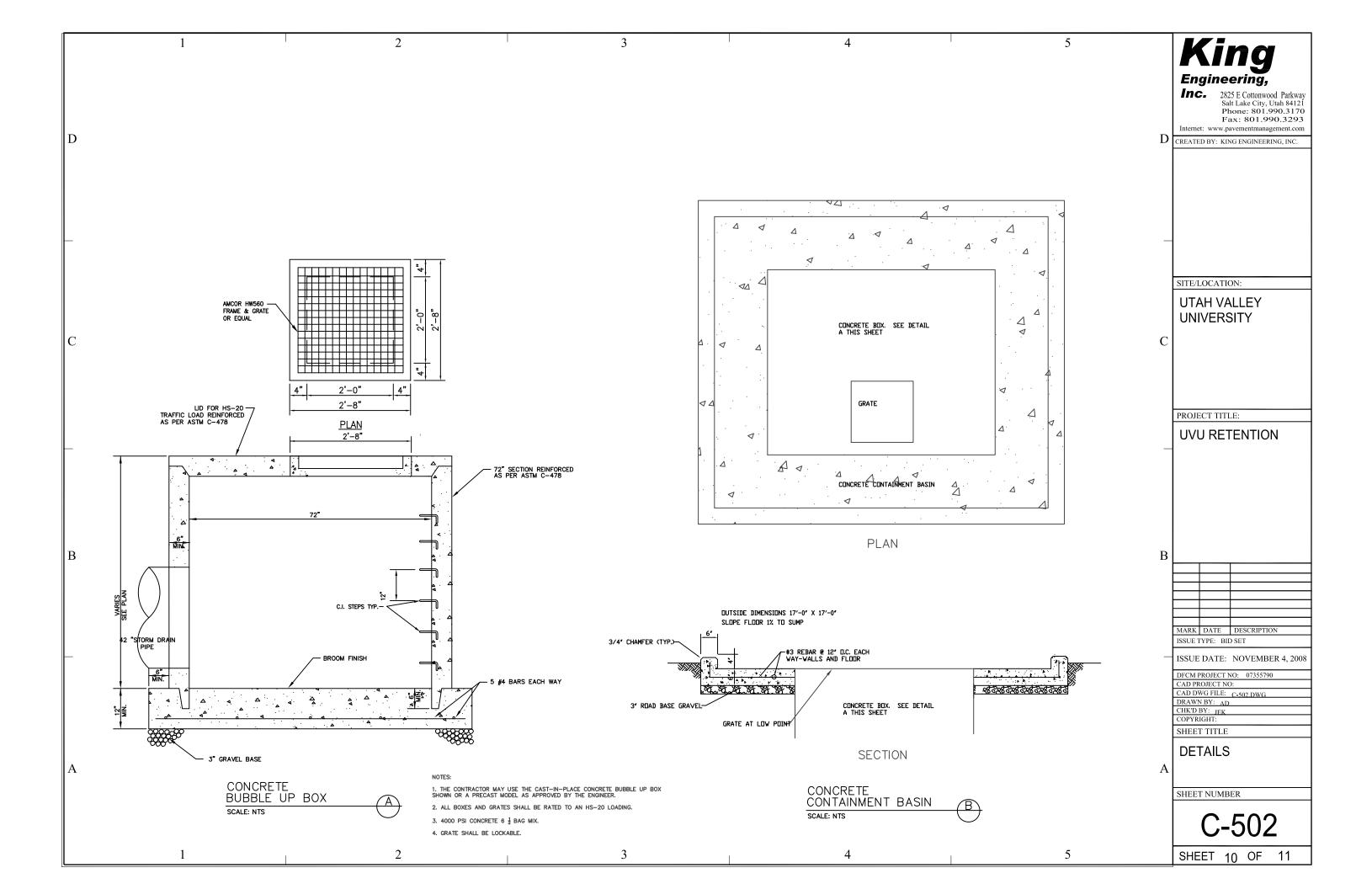








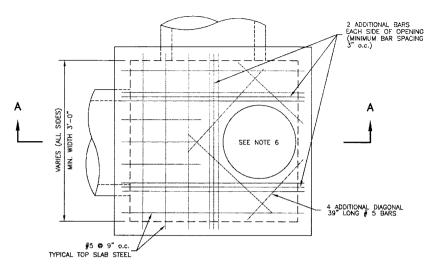




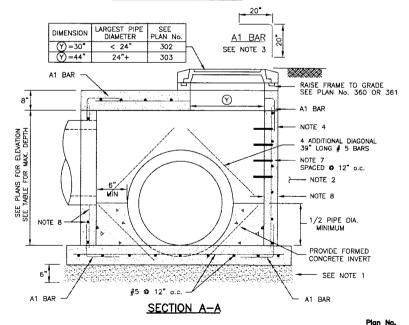
## Cleanout box

- UNTREATED BASE COURSE: Provide material specified in APWA Section 02060. <u>Do not use gravel or sewer rock</u>. Place per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
- BACKFILL: Provide and place per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
- 3. REINFORCEMENT: ASTM A 615, grade 60, deformed steel. See APWA Section 03200 requirements. Center steel in walls and slabs with a minimum cover of 2". Keep steel 2" clear around pipe and lid opening. A1 bars required at all corners, vertical and horizontal. A1 bars connecting two walls must match wall bar size and spacing. A1 bars connecting walls to top and bottom slabs must match slab steel size and spacing.
- CONCRETE: Class 4000 per APWA Section 03304. Place per APWA Section 03310. Cure per APWA Section 03390.
- 5. PIPE LATERALS: Refer to Drawings for connection locations.
- ACCESS: Eccentric access is shown. Prior to construction, verify if concentric access is required. Adjust reinforcement accordingly.
- LADDER RUNGS: Plastic. Required in boxes greater than 6 feet deep with eccentric access. Align rungs with location of access opening. Rungs not required in boxes with concentric access.
- 8. WALL THICKNESS AND WALL STEEL

Low Water Table									
Max. Box Width	6-feet	8-feet	8-feet	9-feet					
Max. Box Depth	6-feet	8-feet	12-feet	12-feet					
Wall Thickness	8-inches	8-inches	12-inches	12-inches					
Wall Curtain Steel	#5 @ 12"	#5 @ 6"	#5 @ 6"	#7 @ 9"					
Modifications for High Water Table									
Wall Thickness	8-inches	10-inches	16-inches	12-inches					
Wall Curtain Steel	#5 @ 9"	#5 @ 6"	#5 @ 6"	#6 @ 6"					



## **BASE WITHOUT SUMP**



Cleanout box

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